1 of 7 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Serial No.: Not assigned Atty. Docket No.: 97020CIP2CON2 Khaled MAHMUD et al. Applicant: Group: 1714 Filing Date: October 11, 2001 U.S. PATENT DOCUMENTS Name Class Sub Filing Date Document Date Examiner Class If Appropriate Initial\* Number 04/30/35 Odell 134 60 1,999,573 MAT 475 2,121,535 06/21/38 Amon 106 2,375,795 05/15/45 Krejci 23 209.8 23 209.1 04/13/48 Amon et al. 2,439,442 08/21/51 Krejci 23 209.4 2,564,700 106 307 2,632,713 03/24/53 Krejci 2,793,100 05/21/57 Weihe 423 460 106 476 01/06/59 Harris 2,867,540 12/05/61 Jordon 106 30R 3,011,902 Watson et al. 106 476 3,025,259 03/13/62 06/18/63 Hamilton et al. 106 307 3,094,428 Walker 106 291 06/65 3,188,225 Steenken et al. 106 307 08/31/65 3,203,819 05/02/67 Iannicelli 106 308 3,290,165 Clas et al. 260 41.5 3,317,458 05/02/67 476 08/08/67 Aboytes et al. 106 3,335,020 3,390,006 Takewell et al. 475 06/25/68 106 01/21/69 Kindler et al. 106 20R 3,423,391 473 3,528,840 09/15/70 Aboytes 106

11/23/71

05/02/72

3,622,650

3,660,132

MST

Berstein et al.

Illigen et al.

260

106

763

307

Page 2 of 7

	T T					Page 2 of 7
MAT	3,663,285	05/16/72	Graf et al.	106	308	
MOST	3,671,476	06/20/72	Terai et al.	260	23	
mar	3,676,070	7/11/72	Vanderveen, et al.	23	209.4	
MAT	3,686,111	08/22/72	Makhloaf et al.	524	530	
MAT	3,689,452	09/05/72	Burke, Jr.	260	33.6	
MAT	3,716,513	02/13/73	Burke, Jr.	260	33.6	
May	3,864,455	2/4/75	Vanderveen	423	450	
1	3,997,356	12/14/76	Thurn et al.	106	288	
	4,006,031	02/01/77	Ferch et al.	106	473	
	4,014,844	03/29/77	Vidal et al.	106	472	
	4,108,679	08/22/78	Szczepanik et al.	106	307	
	4,211,578	07/08/80	Scott, IV	106	475	
	4,221,693	09/09/80	Getson et al.	260	37	
	4,265,768	05/05/81	Beasley et al.	210	682	
	4,297,145	10/27/81	Wolff et al.	106	308	
	4,320,011	03/16/82	Sato et al.	210	694	
	4,366,139	12/28/82	Kühner et al.	423	449	
	4,452,638	06/05/84	Gallus	106	97	
	4,530,961	07/23/85	Nguyen et al.	106	20R	
	4,537,633	08/27/85	Hong	106	96	
	4,590,052	05/20/86	Chevallier et al.	423	335	
	4,597,794	07/01/86	Ohta et al.	106	20C	
	4,670,059	06/02/87	Hackleman et al.	106	475	
	4,751,204	06/14/88	Kyoden et al.	501	89	
	4,820,751	04/11/89	Takeshita et al.	523	215	
	4,831,011	05/16/89	Oikawa et al.	502	406	
	4,929,391	05/29/90	Kroupa	252	511	
上	5,130,363	07/14/92	Scholl et al.	524	392	
MAT	5,149,732	09/22/92	Igarashi et al.	524	426	

Page 3 of 7

						Page 3 of 7
MAT	5,159,009	10/27/92	Wolff et al.	106	475	
1	5,184,148	02/02/93	Suga et al.	106	20R	
	5,190,582	03/02/93	Shinozuka et al.	106	20D	
mer	5,205,866	4/27/93	Kiss et al.	106	475	
,	5,227,425	07/13/93	Rauline	524	493	
	5,281,261	01/25/94	Lin	106	20R	
	5,282,887	02/01/94	Gay et al.	106	261	
	5,286,291	02/94	Bernhardt et al.	106	475	
1	5,294,253	03/94	Carlson et al.	106	475	
may	5,294,585	03/15/94	Moreau et al.	502	413	
,	5,328,949	02/94	Sandstrom et al.	524	262	
	5,336,730	08/09/94	Sandstrom et al.	524	492	
	5,401,313	03/28/95	Supplee et al.	106	475	
	5,401,789	03/95	Wolff et al.	523	213	
mus	5,411,577	05/02/95	Moreau et al.	95	96	
,	5,430,087	07/95	Carlson et al.	106	475	
	5,502,146	03/26/96	Inoue et al.	528	34	
	5,554,739	09/10/96	Belmont	534	885	
	5,559,169	09/24/96	Belmont et al.	523	215	
	5,571,311	11/05/96	Belmont et al.	106	20R	
	5,575,845	11/19/96	Belmont et al.	106	712	
1	5,580,919	12/03/96	Agostini et al.	524	430	
mat	5,622,557	04/22/97	Mahmud et al.	106	712	
	5,630,868	05/20/97	Belmont et al.	106	31.75	
	5,654,357	08/05/97	Menashi et al.	524	495	
	5,672,198	09/30/97	Belmont	106	20	
	5,679,728	10/21/97	Kawazura	523	216	
	5,698,016	12/16/97	Adams et al.	106	31.6	
1	5,707,432	01/13/98	Adams et al.	106	31.6	
MAT	5,713,988	02/03/98	Belmont et al.	106	31.6	

Page 4 of 7 5/5/98 215 Mahmud et al. 523 5,747,562 MAT 5/12/98 Mahmud et al. 106 316 5,749,950 5,830,930 11/3/98 Mahmud et al. 523 215 495 1/12/99 Karl et al. 524 5,859,120 Mahmud et al. 106 712 1/26/99 5,863,323 2/9/99 Mahmud et al. 523 215 5,869,550 Mahmud et al. 3/2/99 523 215 5,877,238 475 5/18/99 Mahmud et al. 106 mes 5,904,762 5,916,934 6/29/99 Mahmud et al. 523 215 7/6/99 Mahmud et al. 523 351 5,919,841 7/6/99 Reed 524 496 5,919,855 03/18/69 Gessler T-860-001 9/7/99 Mahmud et al. 523 215 mas 5,948,835 Max 11/2/99 Mahmud et al. 523 351 5,977,213 Wang et al. 523 215 1/25/00 6,017,980 Mas 2/1/00 Anand et al. 523 212 6,020,402 mas 496 2/22/00 Mahmud et al. 524 Mix 6,028,137 6,057,387 5/2/00 Mahmud et al. 523 215 mou Whitehouse et al. 106 31.65 5/30/00 Mar 6,068,688 492 4/3/01 Mahmud et al. 524 6,211,279 NAT FOREIGN PATENT DOCUMENTS Translation Country Class Sub Document Date Yes or No Class Number 0.006 190 A1 01/09/80 No (Cited in PCT Europe Search Report) 0 468 140 A2 01/92 Europe MAT 03/01/61 Great Britain 0 862 018 01/69 Great Britain 106 475 1,139,620 05/13/70 Great Britain 1,191,872 2 188 311 A 09/30/87 Great Britain MAT

				Page 5 of 7
	1,230,893	09/20/60	France	No
	1,331,889	05/27/63	France	No (Cited In PCT Search Report)
<b>*</b>	2 355 758	05/15/75	Germany	-Yes - Claims
MAT	WO 91/15425	01/17/91	PCT	
4 24	WO 91/02034	08/09/90	PCT	1/0
MAT	WO 92/13983	08/20/92	PCT	
MAT	WO 95/01838	01/19/95	PCT	
1	WO 96/37546	11/28/96	PCT	
	WO 96/37547	11/28/96	PCT	
	WO 96/18688	06/20/96	PCT	
	WO 96/18689	06/20/96	PCT	
	WO 96/18694	06/20/96	PCT	
	WO 96/18695	06/20/96	PCT	
	WO 96/18696	06/20/96	PCT	
MAT	WO 97/10291	03/20/97	PCT	
	ISR-96/14583	02/21/97	PCT	
	ISR 97/17134	01/22/98	PCT	
	ISR 97/08049	05/13/97	PCT	
	TSR 97/08854	11/06/97	Per	
	E 727 <del>75</del>	04/28/60	France	No (Cited in PCT Search Report
	- 5-178604	07/20/93	Japan	Yes
2	- 1 459 <del>019</del>		France (Abstract)	
	1 499 348		France (Abstract)	
•	59/82,467	05/12/84	Japan (Abstract)	Yes
:	6,067,421	03/11/94	Japan (Abstract)	Yes
MAT	0 475 075 A1	03/18/92	Europe	
	675 175	10/04/95	Europe	
=	8,073,657		Japan	

<sup>\*</sup> US Equivalent cited by Examiner

T cited in "other occuments" by Examiner

						Page 6	of 7
		1-948-443	04/08/71	Germany			No
		195 20 946 A1	12/12/96	Germany			
_		3.502.494		Germany			Yes
		3 813 678 A1	11/10/88	Germany			No
Ŧ		0 050 354	04/28/92	Europe			No
Ŧ		56-078629	6/27/81	Japan (Abstract)	-		Yes
· Ŧ		62-250073	10/30/87	Japan (Abstract)			Yes
	MAT	0 711 805 A1	05/15/96	Europe			
	MAT	0 799 854 A1	10/08/97	Europe			
	MAT	0 799 867 A1	10/08/97	Europe			
	MAT	2 296 915 A	07/17/96	Great Britain			
		- 2403545 A1	8/14/75	Germany	CO9C	<del>1/5</del> 0	No (See Int'l Search Report)
	1	0.799.866 A2	10/8/97	Europe	CO9C	150	No (See Int'l Search Report)
	mas	0 278 743 A1	8/17/88	Europe	CO9C	1/56	Yes
	mar	WO 97/47698	12/18/97	PCT	CO9C	11/00	
	max	0 896 978 A2	2/17/99	Europe			
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
Derwent Abstract, AN No. 80-03330C, "Sulphonated Carbon Pigment Produc Carbon with Hot Aqueous Acid," SU,A,659, 523, April 1979			Production b	duction by Treating Technical Grade			
	MAT	Derwent Abstract, AN No. 82-28019E, "Penetrating Flexographic Print Ink Based Polyacrylic Resin," 10/17/79, SU,A, 834062					
	mat	Derwent Abstract, AN No. 86-335147, "Wear Resistant Rubber Composition for Tire Tread Rubber," 04/30/85, JPA 61-250042, November 1986					
Derwent Abstract, AN No. 88-116672 "Surface Treatment of Carbon Black for Powder Coating," 86 0208468				ing," 03/22/88, JPA			
	Derwent Abstract, AN No. 93-261471, "Carbon Black for Coating Magnetic Recording Media - Having Sil Dioxide Coating, Giving Good Dispersibility, Lubrication, etc.", Japanese Patent Application No. 5178604,				ia - Having Silicon No. 5178604, 07/20/93.		
Derwent Abstract, AN No. 95-183086, "Tire Treated Rubber Composition," 10/21/93, JPA 07102116			07102116				
MAT Derwent Abstract, AN No. 94-189154, "Ink for Writing Implements," 05/10/94, JPA 61-28517A				17A			

Page 7 of 7

atent Abstracts of Japan Publication No. JP7102116, "Rubber Composition for Tire Tread," 04/18/95				
Moschopedis, et al., "The Reaction of Diazonium Salts with Humic Acids and Coals: Evidence for Activated Methylene Bridges in Coals and Humic Acids," Fuel, Vol. 43, No. 4, pp. 289-98, 1964, no month.				
Roberts et al., Basic Principles of Organic Chemistry, Second Edition, W.A. Benjamin, Inc., Pub., pg. 1080, no date available.				
Zoheidi et al., "Role of Oxygen Surface Groups in Catalysis of Hydrogasification of Carbon Black by Po Carbonate," Carbon, Vol. 25, No. 6, pp. 809, 1987, no month available.				
Delamar et al., J. Am. Chem. Soc. 1992, 114, 5883-5884,	, no month available.			
Concise Encyclopedia of Polymer Science and Engineerin	Concise Encyclopedia of Polymer Science and Engineering, Wiley, 1990, pages 104-105			
Carbon (Carbon Black) reprinted from KIRK-OTHMER: ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY, Volume 4, Third Edition, pages 631-643, 1978  Patent Abstracts of Japan, Vol. 10, No. 112 (C-342), April 25, 1986, JP 60 240768 A (Toukai Carbon) dated November 29, 1985.				
			International Search Report dated July 30, 1998 for PCT/US98/07554 filed April 17, 1998.	
	Date Considered			
THEW A, THEXTON	23 DECEMBER 2002			
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				
Pa	ttent and Trademark Office - U.S. Department of Commer			
	Moschopedis, et al., "The Reaction of Diazonium Salts we Methylene Bridges in Coals and Humic Acids," Euel, Vo Roberts et al., Basic Principles of Organic Chemistry, Secavailable.  Zoheidi et al., "Role of Oxygen Surface Groups in Cataly Carbonate," Carbon, Vol. 25, No. 6, pp. 809, 1987,			